

GEOMETRIC MEAN MIC₁₀₀

	NUTRIENT BROTH			MUELLER-HINTON BROTH					
	pH 5.5			pH 7.2			pH 5.5		
	50%	100%		50%	100%		50%	100%	100%
PATHOGEN									
SA	70.7	100		3.1	3.1		100	6.3	25
SE	6.3	8.8		1.6	3.1		1.6	25	25
EF	50	>100		25	50		>100	25	35
SM	35.4	35.4		1.6	3.1		6.1	6.3	6.3
EC	25	25		12.5	12.5		12.5	12.5	12.5
PA	8.8	12.5		6.3	6.3		3.1	12.5	0.8
CA	17.7	35.4		6.3	12.5		>100	25	25
CN	12.5	25		1.6	1.6		>100	3.1	6.3

- ORGANISM INOCULUM = 1×10^5 CFU/ml; LOGARITHMIC-PHASE CELLS
- PEPTIDE CONCENTRATION = 10 μ g/ml; (4.6 nmoles / ml ; 4.6 μ M)
- INCUBATION 37°C, AMBIENT CO₂; MIC₁₀₀ READ AT 24HR ($n \geq 2$)

FIG. 20

pH 7.2		ANTIMICROBIAL ACTIVITY †							TOXICITY ‡		
PEPTIDE	SA	SE	EF	SM	EC	PA	CA	CN	RBC _{Hg}	HUVEC	
RP-1	3.1	3.1	25	3.1	12.5	6.3	12.5	6.3	>98%	<5%	
RP-2	6.3	6.3	25	1.6	100	25	>100	12.5	95%	5%	
RP-3	3.1	3.1	50	1.6	6.3	25	12.5	1.6	95%	5%	
RP-4	12.5	4.4	50	4.4	>100	50	12.5	3.1	97%	7%	
RP-5	8.8	3.1	50	4.4	100	25	17.7	4.4	95%	6%	
RP-7	70.7	12.5	50	25	100	>100	50	25	85%	12%	
RP-8	6.3	3.1	25	3.1	12.5	12.5	6.3	1.6	90%	7%	
RP-11	6.3	1.6	35.4	2.2	6.3	6.3	4.4	3.1	87%	8%	
RP-13	>100	>100	>100	>100	>100	>100	>100	>100	94%	5%	

- ORGANISM INOCULUM = 1×10^5 CFU/ml; LOGARITHMIC-PHASE CELLS
- PEPTIDE CONCENTRATION = 10 μ g/ml; 37°C, AMBIENT CO₂; 24 OR 48HR
- † GEOMETRIC MEANS OF MIC₁₀₀ ($n \geq 2$); ‡ IN VITRO TOXICITY MARKERS

FIG. 24

pH 5.5		ANTIMICROBIAL ACTIVITY †								TOXICITY ‡		
PEPTIDE	SA	SE	EF	SM	EC	PA	CA	CN	RBC _{Hg}	HUVEC		
RP-1	70.7	6.3	50	35.4	25	8.8	17.7	12.5	ND	ND		
RP-2	>100	12.5	100	12.5	>100	100	>100	50	ND	ND		
RP-3	100	>100	50	12.5	100	100	25	25	ND	ND		
RP-4	8.8	2.2	50	6.3	70.7	17.7	25	3.1	ND	ND		
RP-5	4.4	0.4	25	0.8	50	8.8	12.5	3.1	ND	ND		
RP-7	100	25	100	50	>100	100	100	12.5	ND	ND		
RP-8	3.1	3.1	6.3	1.6	12.5	8.8	8.8	3.1	ND	ND		
RP-11	3.1	1.6	25	0.4	12.5	3.1	6.3	3.1	ND	ND		
RP-13	12.5	6.3	25	19.8	25	19.8	12.5	6.3	ND	ND		

· ORGANISM INOCULUM = 1×10^5 CFU/ml; LOGARITHMIC--PHASE CELLS

· PEPTIDE CONCENTRATION = 10 µg/ml; 37°C, AMBIENT CO₂; 24 OR 48HR

· † GEOMETRIC MEANS OF MIC₁₀₀ ($n \geq 2$); ‡ IN VITRO TOXICITY MARKERS

FIG. 25